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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,467	06/23/2003	Brian A. Wims	GP-302957 (2750/30)	7224
7590	08/08/2006			
General Motors Corporation Legal Staff, Mail Code 482-C23-B21 300 Renaissance Center P.O. Box 300 Detroit, MI 48265-4714			EXAMINER KARLSEN, ERNEST F	
			ART UNIT 2829	PAPER NUMBER
DATE MAILED: 08/08/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/601,467	WIMS ET AL.	
	Examiner Ernest F. Karlsen	Art Unit 2829	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 24 May 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
  - 4a) Of the above claim(s) 8-12 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-7 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____.

Claims 8-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions and/or species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on May 24, 2006.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the pin receptors, a mapping board box prewired to receive circuit boards with a variety of pin configurations, a harness port with 56 pins, a mapping board box comprising 560 pin receptors, a generic harness, a harness with 56 wires and an electronic simulator must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claims 1-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is not clear what constitutes a mapping board box. Is it some kind of special box or is it just a box? The specification speaks of a mapping board box and adds a harness port to it so presumably a mapping board box does not necessarily include a harness port. Is the board 510 part of the mapping board box? How is it that the mapping board box is prewired? Maybe the board 510 is prewired but it is not clear how the box is prewired. It is not clear what a pinned circuit board is as no such thing is shown in the drawings or adequately described. What the pin receptors of the board are or how they would interact with pins of a circuit board is not clear.

The Examiner does not understand what the disclosed apparatus is or does. An interview with Applicant's representative would probably be helpful.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what the claimed elements are or how they are interconnected and interrelated to produce the desired results. It is not clear what a mapping board box is. Does a mapping board box include a harness port and a

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group of pin receptors. In other words, if one were to go to a place that sold mapping board boxes and asked for a mapping board box would the mapping board box come with a harness port and pin receptors or would the buyer have to ask for a mapping board box with harness port and pin receptors? How does the mapping board box "include" if the mapping board box is just a box?

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anthes et al in view of Jones. Anthes et al show a mapping board box 5 wherein the mapping board box has a plurality of pin receptors (the tube sockets such as element 15) wherein the mapping board box is prewired to receive a variety of pin configurations but does not show the mapping board box to have at least one harness port with a harness attached thereto. Jones shows a printed circuit board tester with a mapping board box 33,35,39 with a harness port and a harness connecting to an external measuring device 37. The chassis wired structure of Anthes et al is the format used prior to the introduction of printer circuit boards and is equivalent to printed circuit board structure. As replacing tubes in circuits with transistors used to be called transistorizing a tube circuit, replacing chassis structure with printed circuit structure could probably be called boarding a chassis. The readout device of Anthes et al is meter 6 which is contained in the mapping board box 5. If the meter 6 of Anthes et al were really big one

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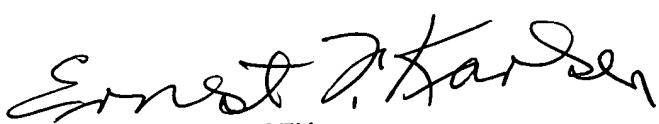
of ordinary skill would reasonably put it in a separate box and connect the boxes by cables. It would have been obvious to one of ordinary skill in the art at the time of the invention to have placed a big readout device in a box and connected to the big readout device by a harness as taught by Jones because one of ordinary skill would realize that so doing would decrease the size of the individual components and make the apparatus more portable. With regard to claims 3, 4 and 6 any number of wires in the harness or any number of pin receptors is inherent in the apparatus of the above combination as is the size limitation of claim 2. With regard to claims 5 and 6 any harness is a generic harness. With regard to claim 7, element 37 of Jones is considered to be a simulator as well as a measuring device.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gerstle, Stock and Smith are cited to show additional tube testers. Vaughan, Kelsey, Boscia et al, Koyama, Faucett, Doane et al, Hackamack, Hofmann, Doundoulakis, Phelps, Boatman et al, Canarutto and Staff are cited to show additional printed circuit board testers.

Any inquiry concerning this communication should be directed to Ernest F. Karlsen at telephone number 571-272-1961.

Ernest F. Karlsen

August 4, 2006

  
ERNEST KARLSEN  
PRIMARY EXAMINER